CLINITEK ATLAS® PREVENTIVE MAINTENANCE CHECKLIST

Date:		FE:		S/N:	
Customer:		City, State:			

Notes in parentheses "( )" refer to the paragraph or page number in the Clinitek Atlas or Rack Sample Handler service manuals.

1) CLEAN THE FOLLOWING:

a) ☐ SG Fiber Optic well (see Clinitek Atlas Service Manual step 12 on page 5.7)
b) ☐ Sample Handler and instrument surfaces and covers (see paragraph 5-2 on page 5.1)
c) ☐ Tube Detector window, Home/Tooth Detector window, Waste Bottle Detector and Bar Code window (page 5.3)
d) ☐ Reagent storage module cavity; inspect door gasket (see paragraph 5-5-1 step 5 on page 5.6)
e) ☐ Platen and rinse well (see paragraph 5-5-1 step 2 on page 5.6)
f) ☐ Readhead with cleaning brush (see paragraph 5-4-4 on page 5.4). Do NOT clean channel 14!
g) ☐ Two vertical and horizontal pipette transport steel shafts to remove rust and dirt (see 5-5-1 steps 9 to 10, page 5.7). Lubricate four shafts with a light coating of light machine oil or synthetic oil (Tri-Flow™). Do not use aerosol spray!
h) ☐ Cavro pump lead screw; lubricate screw with syringe lubricant in supply kit (see paragraph 5-8 on page 5.9)

2) VERIFY PROPER OPERATION OF THE FOLLOWING:

a) ☐ Check that Cavro pump syringe is not worn or damaged. Check all pump valve fittings are intact and tight. Do a Prime Pump while observing pump: no syringe leakage or bubbles may be present
b) ☐ Verify sample tray ID recognition and tube detector operates properly (check with no tubes, an even position, an odd position and with tray full of tubes) (see paragraph 7A-2-3-9 on page 7A.26)
c) ☐ Check bar code reader for proper operation: check both inner and outer tube locations with barcode labels on tubes
d) ☐ Verify set screws are 1.5 mm below surface of pipette pulleys and pulleys don't slip when pipette moves (page 9.4)
e) ☐ Verify reagent roll format lies flat against platen (see paragraph 8-3 on page 8.7)
f) ☐ Verify reagent pads are centered under readhead channels 1 and 11 (see paragraph 8-3 on page 8.7)
g) ☐ Verify tension sprocket pin tip is at right edge of a hole in reagent roll with roll resting on top of sprocket (page 8.8)
h) ☐ Verify take-up reel set screw is securely fastened to the spur gear shaft (see item 111 on page 10.10)
i) ☐ Verify pipette dispenses on all reagent pads (see paragraph 8-5-2 on page 8.13)
j) ☐ Verify pipette goes to the center of the rinse well (see Figure 8-7 on page 8.20)
k) ☐ Verify pipette correctly detects 3 ml of Cal 1 solution in a tube
l) ☐ Verify output ports P1 and S1 are functional (see paragraph 7A-2-2-9 on page 7A.7)

3) CHECK POWER SUPPLY OUTPUTS:

a) For **Switching System International** (SSI) Power Supply (part number 95001734 with *steel cover*, see page 8.23) or **Coutant Lambda-Qualidyne** Power Supply (part number 95001751, with a *blue or black cover*, see page 8.24):
   ☐ +5VDC -0, +0.15 VDC, < 50mV AC ripple: measure at both "+5V" terminals on back of Card Cage, behind display
   ☐ +12VDC -0, +0.25 VDC, < 120mV AC ripple: measure at Power Driver PC terminals "+12VA", "+12VB" and "+12VC"
   ☐ +24VDC ±1 VDC, < 240mV AC ripple. Measure at the Power Driver PCB terminal marked "+24V".
   NOTE: the 24 VDC supply is not adjustable on the steel cover SSI power supply.

b) For **Astec** Power Supply (part number 95001751 with a *bronze cover*, see page 8.27 or service bulletin ATLAS-129)
   ☐ +5VDC -0, +0.15, < 50mV AC ripple: measure at both "+5V" terminals on the back of the Card Cage, behind display
   ☐ +12VDC -0, +0.25, < 120mV AC ripple: measure at Power Driver PCB terminals "+12VA", "+12VB" and "+12VC"
   ☐ +24VDC ±1 VDC, < 240mV AC ripple: measure at the Power Driver PCB terminal marked "+ 24V"
   NOTE: the 12 VDC supply is not adjustable on the bronze cover Astec power supply.

4) IF A RACK SAMPLE HANDLER IS USED, DO THE FOLLOWING (using Rack Sample Handler Service Manual):

a) ☐ Verify Transfer Plate (see item 9 on page 10.36 of Rack Sample Handler Service Manual) and racks are clean.
b) ☐ Verify the Reflection Plate (item 2 on page 10.4 of Rack Handler Service Manual) is clean, not scratched or loose.
c) ☐ Verify PH1-7 and PH9 sensor windows are clean (see Figure 8-3 on page 8.4 of Rack Handler Service Manual)
d) ☐ Verify Barcode Reader window is clean (if instrument is using a barcode reader).
e) ☐ Verify waste tubing is draining properly into the waste receptacle.
f) ☐ Clean system with a soft, clean, damp cloth and mild detergent. Follow with a soft, clean, damp cloth. Dry carefully.
g) ☐ Do a With Tube Run in Service Mode (Rack Handler page 7.4) for 30 minutes to verify system works properly.

5) FINAL CHECKOUT

a) ☐ Print out Reflectance Test values and leave them for future comparison (Clinitek Atlas Service Manual page 7A.21)
b) ☐ Turn unit off and on again to return to normal mode
c) ☐ Complete a successful calibration, then run controls and review the results with customer
d) ☐ Run samples in Analyze operation and observe instrument for proper operation
e) ☐ Verify that printer and computer outputs are operative (if used).

CUSTOMER SIGNATURE:		DATE:	

Provide copies of this form to the customer and to the appropriate office